IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of	Docket No.: 6192.0137.AA
Yong-Kyu JANG	
Serial No.: 09/576,129	Group Art Unit: 2871
Confirmation No.: 1752	
Filed: May 22, 2000	Examiner: NGUYEN, Dung T.

For: **LIQUID CRYSTAL DISPLAY HAVING IMPROVED RETARDATION FILM**

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY AND AMENDMENT UNDER 37 C.F.R. § 1.111

Sir:

In response to the Office Action mailed on February 3, 2003, Applicant submits the following Amendments and Remarks:

AMENDMENTS

In the Claims:

Please **CANCEL** claims 6 and 10 without prejudice or disclaimer to the subject matter therein.

Please **AMEND** claims 1-5, 7-9, 11 and 12 shown below.

The following is a complete listing of all the claims in the application:

1. (Amended) A liquid crystal display comprising:

a first substrate glass;

a second ~~two~~-substrate glasses~~s~~;

a liquid crystal layer between the first substrate glass and the second~~two~~ substrate glass~~es~~;

a first polarizer placed on an outer side ~~of one~~ of the first substrate glass~~es~~, the outer side being opposite to a liquid crystal layer; ~~and~~

a quarter wavelength retardation plate between the first substrate glass and ~~a~~ the first polarizer, the quarter wavelength retardation plate comprising:

a half wavelength retardation film, being adjacent to the first polarizer, of a predetermined wavelength, wherein a slow axis makes a specific angle of $\Theta 1$ with a transmissive axis of the first polarizer; and

a quarter wavelength retardation film adjacent to the first substrate glass wherein the slow axis makes a specific angle of $\Theta 2$ with the transmissive axis of the first polarizer in accordance with relation equation of $\Theta 2=2\times\Theta 1\pm 45$ degrees;~~.~~

a second polarizer placed on an outer side of the second substrate glass, the outer side being opposite to the liquid crystal layer; and

an second quarter wavelength retardation plate between the second substrate glass and the second polarizer, the second quarter wavelength retardation plate comprising:

a second half wavelength retardation film, being adjacent to the second polarizer, of the predetermined wavelength, wherein the slow axis make a specific angle of $\Theta 4$ with a transmissive axis of the second polarizer; and

a second quarter wavelength retardation film adjacent to the other substrate glass, wherein a slow axis of the second polarizer makes a specific angle of $\Theta 3$ with the transmissive axis of the second polarizer in accordance with the relation equation of $\Theta 3=2\times\Theta 4\pm 45$ degrees,

wherein a display region is divided into a reflective region and a transmissive region,

wherein in the reflective region, the effective light path difference Δnd of the liquid crystal layer is equal to a quarter of the predetermined wavelength and a reflector is placed on the inner side of the other substrate glass, and

wherein in the transmissive region, the effective light path difference Δnd of the liquid crystal layer is equal to a half of the predetermined wavelength.

2. (Amended) The liquid crystal display of Claim 1, wherein the predetermined wavelength is 5500Å.

3. (Amended) The liquid crystal display of Claim 1, wherein the effective~~efficient~~ light path difference Δnd of the liquid crystal layer is equal to a quarter of the predetermined wavelength and a reflector is placed on an inner side of the other substrate glass.

4. (Amended) The liquid crystal display of Claim 1, wherein the specific angle Θ1 is one selected from ~~the~~a group consisting of degree values (15, 75, 105, and 165) with limit to an error of 5 degrees and the specific angle Θ2 is decided by relation equation of $\Theta 2=2\times\Theta 1+45$ degree.

5. (Amended) The liquid crystal display of Claim 1, wherein the retardation films are single-axial films.

6. Cancelled.